

Leading the Launch



IDAHO NATIONAL ENGINEERING AND ENVIRONMENTAL LABORATORY

*Delivering a payload of
responsive technologies*



Technology Deployment



HOME OF SCIENCE AND ENGINEERING SOLUTIONS



Activated Gamma (N-Gamma) Probehole Log

Problem

INEEL's Radioactive Waste Management Complex (RWMC) Remediation project needed to determine the presence of chlorinated materials in buried waste sites without exposing workers to transuranic or hazardous contaminants.

Baseline Technology

No known in situ technology for detecting chlorinated materials.

Innovative Technology

The Activated Gamma (N-Gamma) Probehole Log detects characteristic gamma-rays resulting from neutron activation of chlorinated materials.

Comparison

This logging tool enables identification of chlorinated materials without removal of potentially hazardous materials.

Benefits

This tool enabled the RWMC Remediation project to identify the location of waste drums containing chlorinated hydrocarbons so that remediation options for the chlorinated hydrocarbons could be optimized.